

## Geometry 8.3 Assignment Answer Bank: Similar Polygons

Make sure to show all appropriate work

The answer bank doesn't include units, you need to have units!

$$-\frac{7}{6}$$

$$\frac{3}{2}$$

$$21$$

$$\angle M \cong \angle H$$

$$-\frac{11}{6}$$

$$3$$

$$24$$

$$\angle N \cong \angle I$$

$$\frac{5}{8}$$

$$4:1$$

$$49$$

$$\angle Q \cong \angle A$$

$$\frac{2}{3}$$

$$4.5$$

$$60$$

$$\frac{QR}{AB} = \frac{RS}{BC} = \frac{ST}{CD} = \frac{QT}{AD}$$

$$\frac{1}{\sqrt{2}}$$

$$4.5$$

$$63$$

$$\angle R \cong \angle B$$

$$\frac{3}{2}$$

$$9$$

$$69$$

$$\angle S \cong \angle C$$

$$11$$

$$72$$

$$\angle T \cong \angle D$$

$$12.5$$

$$120$$

$$\angle L \cong \angle G$$

Yes

$$\frac{LM}{GH} = \frac{LN}{GH} = \frac{MN}{HI}$$

Yes